

20020523.ba v03_n336.bam.20020523

>From ???@??? Thu May 23 21:15:34 2002 -0500
Message-Id: <200205240215.g402FJMZ022758@sco.theporch.com>
Date: Thu, 23 May 2002 21:14:46 CDT
From: Old Tube Radios <boatanchors@theporch.com>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: BOATANCHORS digest 3336

BOATANCHORS Digest 3336

Topics covered in this issue include:

- 1) Re: BC-348
by "David L. Thompson" <thompson@mindspring.com>
- 2) Re: Canned electrolytic source
by "Marty's Refl. Drop" <polepeeg@aa4rm.ba-watch.org>
- 3) Enigma, the film
by "A. B. Bonds" <ab@vuse.vanderbilt.edu>
- 4) BC-348 who designed it
by "philip" <dgnova@erols.com>
- 5) SX-17 wattage draw and history question
by Richard Post <postr@ohiou.edu>
- 6) Re: SX-17 wattage draw and history question
by W7QH0@aol.com
- 7) Tektronix Military Scope Question
by Michael Crestohl <mc@sover.net>
- 8) WTB:BC 191/375 RF ammeter
by Paul Thekan <Paul.Thekan@eimac.cpii.com>
- 9) R-390A parts
by "Richard Humphrey" <n6nae@ix.netcom.com>
- 10) Swan 240 filament voltage
by Edward J Knobloch <k4pf@juno.com>
- 11) Re: Swan 240 filament voltage
by <w9ran@oneradio.net>
- 12) B&W_ME165??
by "Edward Zeranski" <ezeran@concentric.net>
- 13) RE: B&W_ME165??
by "WF2U" <wf2u@starband.net>
- 14) R-390 shaft clamps
by Smith <smithab11@comcast.net>
- 15) Dayton Photos
by Jerry Proc <jerry7proc@yahoo.com>
- 16) Farnsworth
by Morris Odell <Morris0@vifp.monash.edu.au>
- 17) Re: Swan 240 filament voltage
by jackiv@juno.com
- 18) Re: Farnsworth

by Mike Sullivan <vze344qr@verizon.net>
19) Capacitive Discharge Experiments
by Jerry Proc <jerry7proc@yahoo.com>
20) RE: Farnsworth
by "Edward Zeranski" <ezeran@concentric.net>

Message-ID: <001e01c2000a\$b1228e20\$244b56d1@default>
From: "David L. Thompson" <thompson@mindspring.com>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: Re: BC-348
Date: Mon, 20 May 2002 10:29:02 -0400

We had a BC-348Q that we used on ARMY MARS (3289 and 4025 CW and AM) back in the early 60's.

It did Ok (we had a dipole for 3289). But it lacked selectivity to remove QRM especially when nets in states 500 miles away were on at the same time.

We switched to the main station HQ110 with HC-10 converter (same as the HQ170). The receiver covered 4025 ok but we used the BC-221 to make it tune down to 3289. This made for a much better receiver.

The 348 lacked sensitivity on the higher bands (20 and above).

Nice receiver but sure lacked the essentials that were present in say the HQ120 or HQ129X made at the same time.

73 Dave K4JRB

Date: Mon, 20 May 2002 11:35:02 -0400 (EDT)
From: "Marty's Refl. Drop" <polepeeg@aa4rm.ba-watch.org>
Message-Id: <200205201535.LAA27702@aa4rm.ba-watch.org>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: Re: Canned electrolytic source

> Also, they aren't making the Dynaco caps to spec. Sure they make a
> 20/20/20/20@475. But it is rated 85 degrees C, not 105 degrees C.

John, et. al.

Make a 4" high, 2" dia. hollow tube from AL foil & place over cap. can.

Resultant thermal barrier will keep cap. well within T limits on any Dynaco & cap. oughta last forever. Dynaco shudda done this from get-go but it mighta cost an extra 10 cents

Did this to a Stereo 70 30 years ago & it keeps on ticking every day.

Message-Id: <5.1.0.14.0.20020520111606.028595b8@vuse.vanderbilt.edu>
Date: Mon, 20 May 2002 11:23:14 -0500
To: Old Tube Radios <boatanchors@theporch.com>
From: "A. B. Bonds" <ab@vuse.vanderbilt.edu>
Subject: Enigma, the film
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

Far from perfect but some good eye-candy. This film is based on the Robert Harris novel that doesn't get things too far wrong. Story of the legendarily dysfunctional decoding team at Bletchley Park, moles, spies and all that. Much of the story was filmed at Bletchley and there are some very fine views of a roomful of bombes (of the computing, not the destructive, variety). It would appear from the credits that these were alas models instead of the real thing, though there is a rumour afoot that a real bombe is in the making (in addition to the computer). Also a visit to a monitoring station, though for the life of me I could not make out which receiver they were using. At least from the size they appeared to be about like a Halli S-27 (of which there were many in England) though these might not have been appropriate for comms intercepts, frequency-wise. Also some very nice submarine scenes etc. A ripping good yarn for BA aficionados.

A. B. Bonds

Message-ID: <001d01c20043\$89680660\$280e2c42@default>
From: "philip" <dgnova@erols.com>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: BC-348 who designed it
Date: Mon, 20 May 2002 17:15:57 -0400
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

The BC-348 was designed by RCA in response to an army requirement. I believe the contract date was June 12 1936. This was for the BC-224A. There were two submissions for the army requirement, GE's and RCA's. The RCA submission met the army's requirement and so was accepted. There was an update, maybe in 1939 for the BC-224b and BC-348b. This version was electrically similar to the earlier model but was changed mechanically.

There was no BC-348A

The 1939 update model used metal tubes such as the 6K7 where as the original model used 6 pin tubes such as the 6D6

There was a third model using single ended tubes such as the 6SK7. I

don't know who did the design work.
Philip McCoy dgnova@erols.com

Message-Id: <v03007806b90f17c61491@[132.235.46.182]>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Date: Mon, 20 May 2002 17:36:40 -0400
To: Old Tube Radios <boatanchors@theporch.com>
From: Richard Post <postr@ohiou.edu>
Subject: SX-17 wattage draw and history question

Anchorites,

Local hamfest here a couple of weeks ago yielded up a nice Halli SX-17 and matching speaker. Had it percolating quite well last night. One sweet receiver for the era. Don't have the manual but the 4 pages in Riders is about all I need with the exception of the wattage draw at the stated voltage. (The Rider manual gives the tube socket voltages with 115 VAC in. No wattage listed.). My fairly accurate ammeter hits 1 amp draw with the variac at about 110 VAC. With push-pull 6V6 tubes in the output, that is probably in the ball park. The tranny is not heating but I would like to know what the factory specs are. Anybody have the manual handy?

The "New 1938 Super Skyrider" was the SX-16 introduced in June 1937. The SX-17 started as a "Special Order" SX-16. Hallicrafters' ads for the piece start in the March 1938 QST ad, with a side-bar note:

" * A short time ago we built, on special order, a limited number of 1938 Super Skyriders with 2 stages of Pre-Selection and a built-in Noise Limiter. We have had a number of requests for similar receivers and are prepared to supply them upon order. Ask your dealer about Model SX17. "

Anybody know anything about that "special order"? The FCC had a modified SX-17 that had single ended audio and a number of other mods.

Was the SX-17 introduction related to that order? Or was it a military-related order, either domestic or foreign?

Acquiring minds want to know.

73 de Rich
Boatanchor Pix website - KB8TAD
<<http://oak.cats.ohiou.edu/~postr/bapix/>>

Museum of Radio and Technology
<<http://oak.cats.ohiou.edu/~postr/MRT>>

From: W7QH0@aol.com
Message-ID: <132.e1595b5.2a1ad4ee@aol.com>
Date: Mon, 20 May 2002 18:38:38 EDT
Subject: Re: SX-17 wattage draw and history question
To: Old Tube Radios <boatanchors@theporch.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"
Content-Transfer-Encoding: 7bit

Rich,

My manual reprint gives no wattage rating but calls for 110 vac input. I run mine at that voltage but have not measured the current draw. One amp doesn't sound out of line, though. Can't help you on the history question, sorry.

Dennis D. W7QH0
Glendale, CA

Message-Id: <4.3.2.7.2.20020521073735.00b928a0@mail.sover.net>
Date: Tue, 21 May 2002 07:39:46 -0400
To: Old Tube Radios <boatanchors@theporch.com>
From: Michael Crestohl <mc@sover.net>
Subject: Tektronix Military Scope Question
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

This is one for the military experts.....

Anyone know if there is a military equivalent number for the TEK 465, 466 or 475 scope? I know they have lots of sand devices but they do qualify as BAs because they do have at least ONE vacuum tube!

73,

Michael
W1RC

Message-Id: <4.2.0.58.20020521070739.00c5f780@pop3.eimac.cpii.com>
Date: Tue, 21 May 2002 07:14:40 -0700
To: Old Tube Radios <boatanchors@theporch.com>
From: Paul Thekan <Paul.Thekan@eimac.cpii.com>
Subject: WTB:BC 191/375 RF ammeter
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

I am looking for the RF ammeter that is used on the BC 191 xmtr. It is a General Electric 0 - 8 Amp , 2 1/2 " round black face meter with 'Signal Corp IS-89' printed on the face.

Thank you
Paul
N6FEG

Message-ID: <412002532235615620@ix.netcom.com>
From: "Richard Humphrey" <n6nae@ix.netcom.com>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: R-390A parts
Date: Tue, 21 May 2002 20:56:15 -0700
MIME-Version: 1.0
Content-Type: multipart/alternative;
boundary="-----_NextPart_84815C5ABAF209EF376268C8"

-----_NextPart_84815C5ABAF209EF376268C8
Content-type: text/plain; charset=US-ASCII

Hi:

An R-390A followed me home last Sunday from the North Hills RC swap meet. Despite assurances (which I never believe anyway) that the set worked when last used, it has a few minor problems.

One missing slug from Z201, the rear one, which cover 0.5 to 1.0 mcs. Also need the little mounting plate it screws into.

At least three broken gear clamps. @\$#^^^% pot metal. Even mil grade pot metal breaks eventually.

Anybody have these parts they would part with? Has anybody bought one of the \$40 as-is RF decks from Fair? Other than these minor problems, the set looks good. Heavy layer of crud on top, but other than that I can't fault it.

--- Richard Humphrey

--- n6nae@ix.netcom.com

-----=_NextPart_84815C5ABAF209EF376268C8
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

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* * * * *
*      ---REMAINDER OF MESSAGE TRUNCATED---      *
*      This post contains a forbidden message format      *
*      (such as an attached file, a v-card, HTML formatting) *
*      Mail Lists at theporch.com only accept PLAIN TEXT      *
*      If your postings display this message your mail program *
*      is not set to send PLAIN TEXT ONLY and needs adjusting *
* * * * *
```

-----=_NextPart_84815C5ABAF209EF376268C8--

To: Old Tube Radios <boatanchors@theporch.com>
Date: Wed, 22 May 2002 00:29:05 -0400
Subject: Swan 240 filament voltage
Message-ID: <20020522.002906.10760.0.k4pf@juno.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
From: Edward J Knobloch <k4pf@juno.com>

Hi, Gang

I picked up a beat-up Swan 240 triband SSB rig a while back,
with SW-117AC supply, and I'm just getting around to trouble-shoot it.
Forgive me if I'm beating a dead horse, being new to Swan stuff.

One interesting quirk is that Swan ran the heater
for the 6DQ5 sweep tube in series with nine parallel
connected 6.3V tubes, to divide the 12.6v from the power supply.
The first problem is that I measure 8.5V across the 6DQ5,
and 4.6V across the downstream tubes. Looking at the tube manuals,
the downstream tubes should draw 3.05A at 6.3V, and the 6DQ5
should have 6.3V across it at 2.5A. Ohm's Law tells me
that the 6DQ5 heater should get 7.2V and the downstream tubes 5.9V
with the 13.1V my supply is putting out - so Swan's design would be
close to OK if the tubes' heater currents were as specified.

I ran all the tubes through a tube tester, and there is no indication of any heater to cathode shorts.

Did the tube manufacturers reduce the heater current required for the 6DQ5?

If so, the higher resistance heater would upset the Swan's voltage division.

Is there a particular brand 6DQ5 I should look for, or is there a "standard" fix to add resistance across the 6DQ5 heater to balance out the filament voltage?

Thanks,

Ed Knobloch k4pf@juno.com

Message-ID: <00ce01c2014e\$ffa55f60\$fb396f0a@direcpc.com>

From: <w9ran@oneradio.net>

To: Old Tube Radios <boatanchors@theporch.com>

Subject: Re: Swan 240 filament voltage

Date: Wed, 22 May 2002 00:09:35 -0500

MIME-Version: 1.0

Content-Type: text/plain;
 charset="Windows-1252"

Content-Transfer-Encoding: 7bit

Ed and firebottle addicts,

The minute I read the Subject line, I started wagging my hand in the air like that smart-alec kid in school who always knew the answer!

Fact is, I "been there, done that" and the answer was quite surprising. Even the reknowned tube expert Lud Sibley was stumped, and pleased to hear the final explanation which came from another guru, Jack Iverson. Here is the summary I posted on the Swan list last year:

The mystery regarding the imbalance I was seeing in the series-parallel filament circuit on my Swan 240 has been resolved. Evidently the tube companies produced identically-marked versions of some tubes, including the 6DQ5 which ran the filament at lower temperatures, requiring less filament current. Both

tubes I'd
tried were this "dark heater" version, which upset the voltage division
in the
filament string. Thanks to Jack Iverson who correctly remembered this
and
provided me with the original higher-current version, my 240 is now back
in
operation.

I wanted to get this into the archives for future reference as I cannot
find any
difference in the appearance or marking of the version that works in the
240 vs.
the dark heater version that does not.

Now all you need to do is find an "old" 6DQ5, before this change was
made. The newer dark heater version draws 2 amps instead of 2.5 as
required by the Swan series/parallel filament design. Lud and Jack
think "runnign changes" like this were fairly common back then, after
all, who would care if a tube drew less heater current? (Swan 240
owners, that's who!)

73,
Bob W9RAN

----- Original Message -----

From: "Edward J Knobloch" <k4pf@juno.com>
To: "Old Tube Radios" <boatanchors@theporch.com>
Sent: Tuesday, May 21, 2002 11:29 PM
Subject: Swan 240 filament voltage

> Hi, Gang
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> of any heater to cathode shorts.
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> Did the tube manufacturers reduce the heater current required for the
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> If so, the higher resistance heater would upset the Swan's voltage
> division.
>
> Is there a particular brand 6DQ5 I should look for,
> or is there a "standard" fix to add resistance across the 6DQ5 heater
> to balance out the filament voltage?
>
> Thanks,
>
> Ed Knobloch k4pf@juno.com
>
>

From: "Edward Zeranski" <ezeran@concentric.net>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: B&W_ME165??
Date: Tue, 21 May 2002 22:22:39 -0700
Message-ID: <FHEBKNEBHGNPDPLBMCNEIEKPCCAA.ezeran@concentric.net>
MIME-Version: 1.0
Content-Type: text/plain;
charset="Windows-1252"
Content-Transfer-Encoding: 7bit

I recently picked up a Barker & Williamson (Barkin' Willie) Model 500 Matchmaster swr meter/dummy load. It had no paperwork but sure looks like the ME165 used with the T368 military TX. Does anyone know if that is the same piece of gear? Thanks!

From: "WF2U" <wf2u@starband.net>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: RE: B&W_ME165??
Date: Wed, 22 May 2002 06:49:27 -0400
Message-ID: <NABBLNEJDDKECLKHCAAPGEGKHLAA.wf2u@starband.net>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

The B&W Model 500 Matchmaster is identical to the ME-165/GRC, which is also used with the GRC-106 in the GRC-142 and GRC-122 shelters.

In fact, I wondered why I have the Matchmaster in the GRC-142 shelter I got a few years ago complete with all the equipment (GRC-106, MD-522, etc.)

I also have the ME-165/GRC I use with the T-368.

I have no idea why some of these units come with civilian markings - otherwise even the color scheme is identical to the military nomenclatured ones.

73, Meir WF2U

-----Original Message-----

From: owner-boatanchors@theporch.com

[mailto:owner-boatanchors@theporch.com] On Behalf Of Edward Zeranski

Sent: Wednesday, May 22, 2002 1:23 AM

To: Old Tube Radios

Subject: B&W_ME165??

I recently picked up a Barker & Williamson (Barkin' Willie) Model 500 Matchmaster swr meter/dummy load. It had no paperwork but sure looks like the ME165 used with the T368 military TX. Does anyone know if that is the same piece of gear? Thanks!

Date: Wed, 22 May 2002 09:41:45 -0400

From: Smith <smithab11@comcast.net>

Subject: R-390 shaft clamps

To: Old Tube Radios <boatanchors@theporch.com>

Message-id: <002201c20196\$6a0f3960\$06f12144@dover01.de.comcast.net>

MIME-version: 1.0

Content-type: text/plain; charset=Windows-1252

Content-transfer-encoding: 7BIT

I have has some luck with using clamps available from "Small Parts Inc" in Miami Lakes, Florida. I doubt if you can over torque them.

<http://www.smallparts.com/SCX>

Look at the index under "shafts" and then "collars".

And you can always borrow the large collars from the BW and BFO controls and

use them elsewhere and put good ole small hose clamps on the BW, BFO shafts and most important of all please don't forget to use WD-40 on the gears.

I am sure that the hose clamps will get some comments but for a limited budget they work fine on the BW,BFO shafts.

Breck K4CHE, Dover Delaware
annt nutten in Dover, except chickens, a NASCAR track and hams that can't
solder.
<http://mywebpages.comcast.net/smithab11/>

Message-ID: <20020523033333.49178.qmail@web21502.mail.yahoo.com>
Date: Wed, 22 May 2002 20:33:33 -0700 (PDT)
From: Jerry Proc <jerry7proc@yahoo.com>
Subject: Dayton Photos
To: Old Tube Radios <boatanchors@theporch.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii

Hi Folks,

Photos of this year's Dayton hamvention have been
posted to:

<http://www.qsl.net/wd5bjq/hamvent02.htm>

=====

--

Regards,
Jerry Proc
E-mail: jerry7proc@yahoo.com

Do You Yahoo!?
LAUNCH - Your Yahoo! Music Experience
<http://launch.yahoo.com>

Message-ID:
<07A064EA6042D4118A62009027F70E77181F94@nt_exchange.vifp.monash.edu.au>
From: Morris Odell <Morris0@vifp.monash.edu.au>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: Farnsworth
Date: Fri, 24 May 2002 08:52:37 +1000
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"

Hi all,

take a look at:

http://www.newyorker.com/printable/?critics/020527crat_atlarge

73, Morris VK3DOC

To: Old Tube Radios <boatanchors@theporch.com>
Cc: boatanchors@theporch.com
Date: Thu, 23 May 2002 17:52:14 -0500
Subject: Re: Swan 240 filament voltage
Message-ID: <20020523.175215.2204.1.jackiv@juno.com>
MIME-Version: 1.0
Content-Type: multipart/alternative; boundary=--__JNP_000_0e4e.558b.476a
From: jackiv@juno.com

This message is in MIME format. Since your mail reader does not understand this format, some or all of this message may not be legible.

----__JNP_000_0e4e.558b.476a
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Thanks Bob. Do you remeber the cold resistance of the two tubes?
as I recall the "dark heater" GE tube was significantly higher than the
plain jane one. If needed I can measure the two and post the results.
jack

On Wed, 22 May 2002 00:09:35 -0500 <w9ran@oneradio.net> writes:
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> The minute I read the Subject line, I started wagging my hand in the
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> 73,
> Bob W9RAN
>

> ----- Original Message -----
> From: "Edward J Knobloch" <k4pf@juno.com>
> To: "Old Tube Radios" <boatanchors@theporch.com>
> Sent: Tuesday, May 21, 2002 11:29 PM

> Subject: Swan 240 filament voltage
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> >
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>
----__JNP_000_0e4e.558b.476a

Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

* * * * *
* ---REMAINDER OF MESSAGE TRUNCATED--- *
* This post contains a forbidden message format *
* (such as an attached file, a v-card, HTML formatting) *
* Mail Lists at theporch.com only accept PLAIN TEXT *
* If your postings display this message your mail program *
* is not set to send PLAIN TEXT ONLY and needs adjusting *
* * * * *

----__JNP_000_0e4e.558b.476a--

Message-ID: <3CED8D1B.EBBA72BD@verizon.net>
Date: Thu, 23 May 2002 20:45:15 -0400
From: Mike Sullivan <vze344qr@verizon.net>
MIME-Version: 1.0
To: Old Tube Radios <boatanchors@theporch.com>
CC: Old Tube Radios <boatanchors@theporch.com>
Subject: Re: Farnsworth
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Read the article in the New Yorker a few days ago. I have a copy of
Farnsworth's widow's book. All very interesting. I too am a TV junkie,
from a technological point of view. There is something about
transporting sounds and pictures across great distances that excites me.
Mike
kc2kj

Morris Odell wrote:

>
> Hi all,
>
> take a look at:
>
> http://www.newyorker.com/printable/?critics/020527crat_atlarge
>
> 73, Morris VK3DOC

Message-ID: <20020524011956.15010.qmail@web21503.mail.yahoo.com>
Date: Thu, 23 May 2002 18:19:56 -0700 (PDT)
From: Jerry Proc <jerry7proc@yahoo.com>
Subject: Capacitive Discharge Experiments
To: Old Tube Radios <boatanchors@theporch.com>

MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii

Hello Group,

After reading this web page, I'm not sure whether I'd rather experiment with 3.5 kilojoules of electricity or 3.5 kilos of gunpowder. :-)

<http://www.powerlabs.org/capexperiments.htm>

Enjoy!

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Regards,
Jerry Proc
E-mail: jerry7proc@yahoo.com

Do You Yahoo!?
LAUNCH - Your Yahoo! Music Experience
<http://launch.yahoo.com>

From: "Edward Zeranski" <ezeran@concentric.net>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: RE: Farnsworth
Date: Thu, 23 May 2002 19:14:55 -0700
Message-ID: <FHEBKNEBHGNPDPLBMCNECEMACCAA.ezeran@concentric.net>
MIME-Version: 1.0
Content-Type: text/plain;
charset="us-ascii"
Content-Transfer-Encoding: 7bit

For several years there was a website called "The Farnsworth Chronicles" . It had the Philo Farns worth/RCA-Sarnoff debacle pretty well documented. In my book, ...F*** that Sarnoff A**H*1* a real bad actor and user._

-----Original Message-----

From: owner-boatanchors@theporch.com
[mailto:owner-boatanchors@theporch.com]On Behalf Of Mike Sullivan
Sent: Thursday, May 23, 2002 5:45 PM
To: Old Tube Radios

Cc: Old Tube Radios
Subject: Re: Farnsworth

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End of BOATANCHORS Digest 3336
